

3 Apr '05

10 / 597630

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075986 A2

- (51) International Patent Classification⁷: **G01N 33/50, 33/573**
- (21) International Application Number: **PCT/BE2005/000017**
- (22) International Filing Date: 7 February 2005 (07.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04447027.6 6 February 2004 (06.02.2004) EP
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KB, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARipo (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

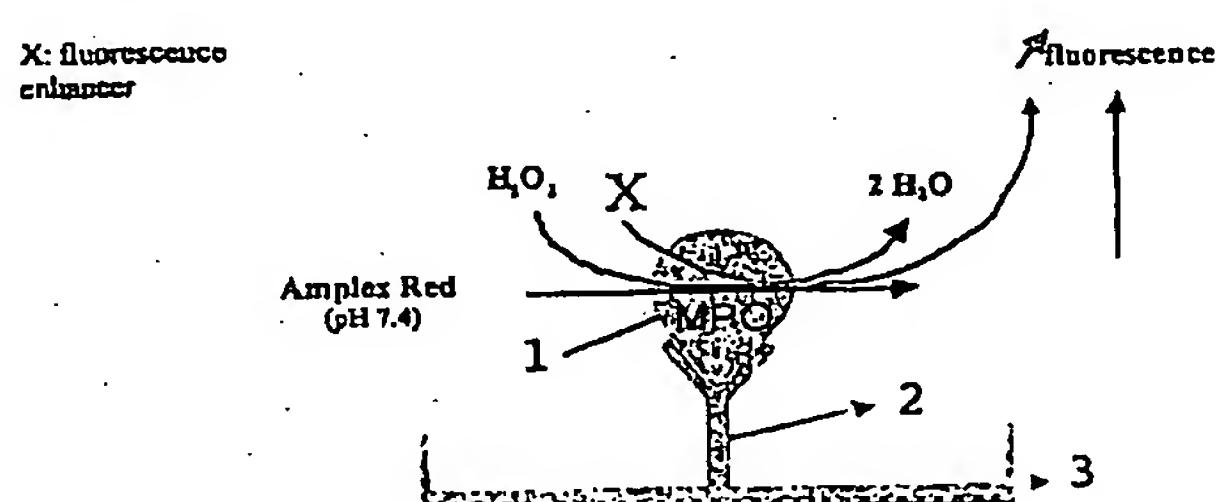
Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND KIT FOR THE MEASUREMENT OF NEUTROPHIL CELL ACTIVATION

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(57) **Abstract:** The present invention is related to accurate detection methods for the measurement only of myeloperoxidase (MPO) levels of neutrophils, preferably equine neutrophils, in complex biological samples. The present invention is further related to ELISA and SIEFED assays for such detection. SIEFED detection sensitivity of active peroxidase activity was found to be enhanced by the addition of nitrite. Such MPO measurement finds its use in many applications such as the prediction, diagnosis and/or monitoring of pathologies correlated with neutrophil activation and/or destruction; the evaluation of drugs and/or immunomodulators; the assessment of immune responses, either natural and/or after treatment with immunomodulators and/or drugs; and the study of cells and their ability to fight microorganisms and/or to destroy them.